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1 Model-driven development of Web applications: the AutoWeb systen
Piero Fraternali, Paolo Paolini
October 2000 **Transactions on Information Systems (TOIS)** , Volume 18 I
Publisher: ACM 🔖 Request Permissions
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This paper describes a methodology for the development of WWW appli
environment specifically tailored for the methodology. The methodology
development environment are based upon models and techniques alrea
hypermedia, ...

Keywords: HTML, WWW, application, development, intranet, modeling

2 A software model and specification language for non-WIMP user inte
Robert J. K. Jacob, Leonidas Deligiannidis, Stephen Morrison
March 1999 **Transactions on Computer-Human Interaction (TOCHI)** ,
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Full text available: 📄 Pdf (574.62 KB)   Additional Information: full citation, abstract, referen
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We present a software model and language for describing and programr
grained aspects of interaction in a non-WIMP user interface, such as a v
environment. Our approach is based on our view that the essence of a r
dialogue is ...

Keywords: PMIW, interaction techiques, non-WIMP interface, specificat
state transition diagram, user interface management system (UIMS)

3 Proceedings of the 1997 ACM/IEEE conference on Supercomputing
November 1997 **Supercomputing '97:** Proceedings of the 1997 ACM/IEEE
                Supercomputing (CDROM)
Publisher: ACM

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citatic

4 Reasoning about code mobility with mobile UNITY

Gian Pietro Picco, Gruia-Catalin Roman, Peter J. McCann

July 2001 **Transactions on Software Engineering and Methodology (1**
10 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (419.80 KB)   Additional Information: full citation, abstract, referer
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Bibliometrics: Downloads (6 Weeks): 17,   Downloads (12 Months): 53,   Citatior

Advancements in network technology have led to the emergence of new
paradigms that challenge established programming practices by employ
consistency and dynamic forms of binding. Code mobility, for instance,
invocation-time ...

Keywords: UNITY, code mobility, mobile agent

5 A formal basis for architectural connection

Robert Allen, David Garlan

July 1997 **Transactions on Software Engineering and Methodology (1**
Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (463.23 KB)   Additional Information: full citation, abstract, referer
terms, review

Bibliometrics: Downloads (6 Weeks): 40,   Downloads (12 Months): 201,   Citatic

As software systems become more complex, the overall system structur
architecture—becomes a central design problem. An important step tow
engineering discipline of software is a formal basis for describing and ar

Keywords: WRIGHT, formal models, model-checking, module interconr
analysis

6 Integrating independent components with on-demand remodularizati

Mira Mezini, Klaus Ostermann

November 2002 **OOPSLA '02:** Proceedings of the 17th ACM SIGPLAN confer
oriented programming, systems, languages, and applicatior

Publisher: ACM Request Permissions

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terms, review

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 38,   Citation

This paper proposes language concepts that facilitate the separation of
into independent reusable building blocks and the integration of pre-bui
software components into applications that have been developed by thir
...

Keywords: aspect-oriented programming, collaboration-based decomp demand remodularization

Also published in:
November 2002 **SIGPLAN Notices** Volume 37 Issue 11

7 Heterogeneous multi-computer system: a new platform for multi-para simulation
Taisuke Boku, Masayuki Umemura, Jun'ichiro Makino, Toshiyuki Fukushige, Akira Ukawa
June 2002 **I CS '02:** Proceedings of the 16th international conference on Su
Publisher: ACM Request Permissions
Full text available: Pdf (167.22 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 19,   Citation

HMCS (Heterogeneous Multi-Computer System) is a new parallel proces combining massively parallel processors for continuum simulation and p to realize multi-scale computational physics simulations. We are constru

Keywords: CP-PACS, GRAPE, heterogeneous computing

8 Yin and yang in computer science
A. C. Sodan
April 1998 **Communications of the ACM** , Volume 41 Issue 4
Publisher: ACM Request Permissions
Full text available: Pdf (257.25 KB) Additional Information: full citation, references, cited

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 59,   Citation

9 Towards OLAP security design — survey and research issues
Torsten Priebe, Günther Pernul
November 2000 **DOLAP '00:** Proceedings of the 3rd ACM international work warehousing and OLAP
Publisher: ACM Request Permissions
Full text available: Pdf (107.83 KB) Additional Information: full citation, references, cited

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 119,   Citatic

Keywords: OLAP, access control, data warehouse, design, security

10 Designing a distributed access control processor for network service
Reiner Kraft
November 2002 **XMLSEC '02:** Proceedings of the 2002 ACM workshop on X
Publisher: ACM Request Permissions
Full text available: Pdf (301.14 KB) Additional Information: full citation, abstract, referer terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 163,   Citatic

The service oriented architecture (SOA) is gaining more momentum wit network services on the Web. A programmable and machine accessible

of many,and might represent a step towards the semantic Web. Howeve

Keywords: Web services, XML, access control, security

11 Evaluating design alternatives for reliable communication on high-sp
Raoul A. F. Bhoedjang, Kees Verstoep, Tim Rühl, Henri E. Bal, Rutger F. H.
December 2000 **ASPLOS-IX**: Proceedings of the ninth international confere
Architectural support for programming languages and opera
Publisher: ACM Request Permissions
Full text available: Pdf (147.96 KB) Additional Information: full citation, abstract, referer
terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 35, Citation

We systematically evaluate the performance of five implementations of
level communication interface. Each implementation makes different are
assumptions about the reliability of the network hardware and the capa

Also published in:
December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5
December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

12 Natural language processing for information retrieval
David D. Lewis, Karen Spärck Jones
January 1996 **Communications of the ACM** , Volume 39 Issue 1
Publisher: ACM Request Permissions
Full text available: Pdf (602.45 KB) Additional Information: full citation, references, cited

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 304, Citatic

13 Adaptive transaction scheduling for transactional memory systems
Richard M. Yoo, Hsien-Hsin S. Lee
June 1998 **SPAA '08:** Proceedings of the twentieth annual symposium on P
algorithms and architectures
Publisher: ACM Request Permissions
Full text available: Pdf (265.03 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 185, Citatic

Transactional memory systems are expected to enable parallel program
programming complexity, while delivering improved performance over t
based systems. Nonetheless, there are certain situations where transac

Keywords: contention intensity, parallelism, performance, transaction
transactional memory systems

14 Alias annotations for program understanding
Jonathan Aldrich, Valentin Kostadinov, Craig Chambers
November 2002 **OOPSLA '02:** Proceedings of the 17th ACM SIGPLAN confei
oriented programming, systems, languages, and applicatior
Publisher: ACM Request Permissions

Additional Information: full citation, abstract, referer

Full text available: Pdf (336.14 KB)   terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 86,   Citation

One of the primary challenges in building and evolving large object-orie
understanding aliasing between objects. Unexpected aliasing can lead to
invariants, mistaken assumptions, security holes, and surprising side ef

Keywords: aliasing, aliasjava, encapsulation, java, ownership types, ty
uniqueness

Also published in:
    November 2002 **SIGPLAN Notices** Volume 37 Issue 11

15 Charting past, present, and future research in ubiquitous computing
Gregory D. Abowd, Elizabeth D. Mynatt
March 2000 **Transactions on Computer-Human Interaction (TOCHI)** ,
Publisher: ACM Request Permissions
Full text available: Pdf (730.83 KB)   Additional Information: full citation, abstract, referer
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Bibliometrics: Downloads (6 Weeks): 170,   Downloads (12 Months): 1061,   Cita

The proliferation of computing into the physical world promises more th
availability of computing infrastructure; it suggest new paradigms of int
by constant access to information and computational capabilities. For ...

Keywords: augmented reality, capture and access, context-aware appl
evaluation, everyday computing, natural interfaces, social implications,
computing, user interfaces

16 LegionFS: a secure and scalable file system supporting cross-domai
performance applications
Brian S. White, Michael Walker, Marty Humphrey, Andrew S. Grimshaw
November 2001 **Supercomputing '01:** Proceedings of the 2001 ACM/IEEE
                            Supercomputing (CDROM)
Publisher: ACM
Full text available: Pdf (499.88 KB)   Additional Information: full citation, abstract, referer
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Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 22,   Citation

Realizing that current file systems can not cope with the diverse require
area collaborations, researchers have developed data access facilities to
needs. Recent work has focused on comprehensive data access architec

17 The Anti-Mac interface
Don Gentner, Jakob Nielsen
August 1996 **Communications of the ACM** , Volume 39 Issue 8
Publisher: ACM Request Permissions
Full text available: Pdf (365.38 KB)   Additional Information: full citation, references, cited
                                                                                review

Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 251,   Citatic

18 Creating and sharing web notes via a standard browser

Ng S. T. Chong, Masao Sakauchi

March 2001 **SAC '01 :** Proceedings of the 2001 ACM symposium on Applied

Publisher: ACM Request Permissions

Full text available: Pdf (298.63 KB) Additional Information: full citation, references, citec

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 27,   Citation

Keywords: note taking, shared web annotation systems, synchronous CSCW systems, web-based course delivery systems

19 Using speakeasy for ad hoc peer-to-peer collaboration

W. Keith Edwards, Mark W. Newman, Jana Z. Sedivy, Trevor F. Smith, Dirk Smetters, H. Chi Wong, Shahram Izadi

November 2002 **CSCW '02 :** Proceedings of the 2002 ACM conference on Co cooperative work

Publisher: ACM Request Permissions

Full text available: Pdf (346.03 KB) Additional Information: full citation, abstract, referer terms

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 88,   Citatior

Peer-to-peer systems appear promising in terms of their ability to suppc spontaneous collaboration. However, current peer-to-peer systems suffc deficiencies that diminish their ability to support this domain, such as in

Keywords: ad-hoc collaboration, casca, peer-to-peer, speakeasy

20 Secure program partitioning

Steve Zdancewic, Lantian Zheng, Nathaniel Nystrom, Andrew C. Myers

August 2002 **Transactions on Computer Systems (TOCS)** , Volume 20 Issue

Publisher: ACM Request Permissions

Full text available: Pdf (497.12 KB) Additional Information: full citation, abstract, referer terms

Bibliometrics: Downloads (6 Weeks): 26,   Downloads (12 Months): 101,   Citatic

This paper presents secure program partitioning, a language-based tech protecting confidential data during computation in distributed systems c mutually untrusted hosts. Confidentiality and integrity policies can be e annotating ...

Keywords: Confidentiality, declassification, distributed systems, downc mutual distrust, secrecy, security policies, type systems

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21 Fast and flexible application-level networking on exokernel systems
Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Hector M. Brice
Thomas Pinckney
February 2002 **Transactions on Computer Systems (TOCS)** , Volume 20 Is:
Publisher: ACM ⟫ Request Permissions
Full text available: 📄 Pdf (500.67 KB)   Additional Information: full citation, abstract, refere
terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 83,   Citatior

Application-level networking is a promising software organization for im
performance and functionality for important network services. The Xok/
system includes application-level support for standard network services

Keywords: Extensible systems, OS structure, fast servers, network ser

22 Mobile objects in distributed Oz
Peter Van Roy, Seif Haridi, Per Brand, Gert Smolka, Michael Mehl, Ralf Sch
September 1997 **Transactions on Programming Languages and Systen**
Volume 19 Issue 5
Publisher: ACM ⟫ Request Permissions
Full text available: 📄 Pdf (484.83 KB)   Additional Information: full citation, abstract, refere
terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 68,   Citatior

Some of the most difficult questions to answer when designing a distrib
are related to mobility: what information to transfer between sites and
transfer it. Network-transparent distribution, the property that a progra

Keywords: latency tolerance, mobile objects, network transparency

23 Disney's Aladdin: first steps toward storytelling in virtual reality
Randy Pausch, Jon Snoddy, Robert Taylor, Scott Watson, Eric Haseltine
August 1996 **SIGGRAPH '96:** Proceedings of the 23rd annual conference oi
graphics and interactive techniques
Publisher: ACM ⟫ Request Permissions

Full text available: Pdf (195.32 KB)   Additional Information: full citation, references, cite

Bibliometrics: Downloads (6 Weeks): 38,   Downloads (12 Months): 320,   Citatic

24 An invitation to discuss computer depiction

Frédo Durand

June 2002 **NPAR '02:** Proceedings of the 2nd international symposium on I
animation and rendering

Publisher: ACM Request Permissions

Full text available: Pdf (401.53 KB)   Additional Information: full citation, abstract, refere
terms

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 117,   Citatic

This paper draws from art history and perception to place computer dep
broader context of picture production. It highlights the often underestin
the interactions between features in the picture and features of the repr

Keywords: computer depiction, interaction, non-photorealistic renderir
visual arts

25 Structured management of role-permission relationships

Najam Perwaiz

May 2001 **SACMAT '01:** Proceedings of the sixth ACM symposium on Acce
and technologies

Publisher: ACM Request Permissions

Full text available: Pdf (172.93 KB)   Additional Information: full citation, abstract, refere
terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 28,   Citation

This paper describes a structured approach to managing Role-permissio
implementing RBAC in large decentralized organizations. The paper beg
rationale behind this design followed by the description of its two main

26 Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín

September 2001 **Computing Surveys (CSUR)** , Volume 33 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (916.04 KB)   Additional Information: full citation, abstract, refere
terms

Bibliometrics: Downloads (6 Weeks): 61,   Downloads (12 Months): 390,   Citatic

The problem of searching the elements of a set that are close to a giver
under some similarity criterion has a vast number of applications in mar
computer science, from pattern recognition to textual and multimedia ir

Keywords: Curse of dimensionality, nearest neighbors, similarity searc
spaces

27 Machine learning in automated text categorization

Fabrizio Sebastiani

March 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 1
Publisher: ACM ❖ Request Permissions

Full text available: 🗋 Pdf (524.41 KB)   Additional Information: full citation, abstract, referer terms

Bibliometrics: Downloads (6 Weeks): 219, Downloads (12 Months): 1884,   Cit

The automated categorization (or classification) of texts into predefined witnessed a booming interest in the last 10 years, due to the increased documents in digital form and the ensuing need to organize them. In th

Keywords: Machine learning, text categorization, text classification

28 Version models for software configuration management
Reidar Conradi, Bernhard Westfechtel
June 1998 **Computing Surveys (CSUR)** , Volume 30 Issue 2
Publisher: ACM ❖ Request Permissions

Full text available: 🗋 Pdf (483.54 KB)   Additional Information: full citation, abstract, referer terms

Bibliometrics: Downloads (6 Weeks): 68, Downloads (12 Months): 677,   Citatic

After more than 20 years of research and practice in software configura (SCM), constructing consistent configurations of versioned software pro a challenge. This article focuses on the version models underlying both

Keywords: changes, configuration rules, configurations, revisions, vari

29 Evaluating design alternatives for reliable communication on high-sp
Raoul A. F. Bhoedjang, Kees Verstoep, Tim Rühl, Henri E. Bal, Rutger F. H.
November 2000 **SIGPLAN Notices** , Volume 35 Issue 11
Publisher: ACM

Full text available: 🗋 Pdf (1.25 MB)   Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 14,   Citation

We systematically evaluate the performance of five implementations of communication interface. Each implementation makes different architec about the reliability of the network hardware and the capabilities of the

30 Process migration
Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songn
September 2000 **Computing Surveys (CSUR)** , Volume 32 Issue 3
Publisher: ACM ❖ Request Permissions

Full text available: 🗋 Pdf (1.24 MB)   Additional Information: full citation, abstract, referer terms, review

Bibliometrics: Downloads (6 Weeks): 74, Downloads (12 Months): 683,   Citatic

Process migration is the act of transferring a process between two mach dynamic load distribution, fault resilience, eased system administration, locality. Despite these goals and ongoing research efforts, migration ha

Keywords: distributed operating systems, distributed systems, load dis
migration

31 Reconfigurable computing: a survey of systems and software
Katherine Compton, Scott Hauck
June 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (710.56 KB)   Additional Information: full citation, abstract, refere
terms, review

Bibliometrics: Downloads (6 Weeks): 109,   Downloads (12 Months): 805,   Citat

Due to its potential to greatly accelerate a wide variety of applications,
computing has become a subject of a great deal of research. Its key fea
to perform computations in hardware to increase performance, while re

Keywords: Automatic design, FPGA, field-programmable, manual desic
architectures, reconfigurable computing, reconfigurable systems

32 Using metalevel techniques in a flexible toolkit for CSCW application
Paul Dourish
June 1998 **Transactions on Computer-Human Interaction (TOCHI)** , v
Publisher: ACM Request Permissions
Full text available: Pdf (292.97 KB)   Additional Information: full citation, abstract, referei
terms

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 110,   Citatic

Ideally, software toolkits for collaborative applications should provide ge
components, applicable in a wide range of circumstances, which softwai
assemble to produce new applications. However, the nature of CSCW af

Keywords: consistency control, consistency guarantees, data distributi
metalevel programming, open implementation, software architecture

33 The building blocks for specifying communication behavior of comple
activity-driven approach
Ling Liu, Robert Meersman
June 1996 **Transactions on Database Systems (TODS)** , Volume 21 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (699.84 KB)   Additional Information: full citation, abstract, referei
terms, review

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 51,   Citation

Communication behavior represents dynamic evolution and cooperation
objects in accomplishing a task. It is an important feature in object-orie
propose the concept of activity as a basic building block for declarative s

Keywords: activity aggregation, activity patterns, activity specializatioi
behavior, first-order temporal logic, object-oriented databases, synchro